

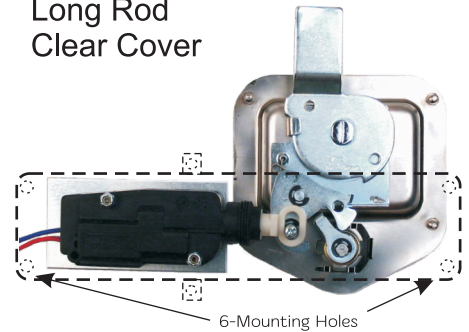


Power lock shown with Tee Handle latch, is HDC's universal Black Act actuator. Works with all power lock capable hardware. Notching of clear cover may be required for some locking orientations.

**BA-LP1B1**  
 Black Actuator  
 Standard Nosepiece  
 Standard Linkpin  
 Long Rod  
 Adhesive Mount Base

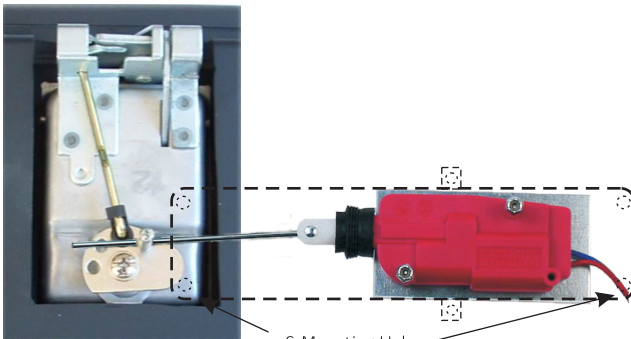
**BA-LP1B2**  
 Black Actuator  
 Standard Nosepiece  
 Standard Linkpin  
 Long Rod  
 Non Adhesive Mount Base

**BADN-LP1C2**  
 Black Actuator  
 D-Nose Piece  
 Standard Linkpin  
 Long Rod  
 Clear Cover

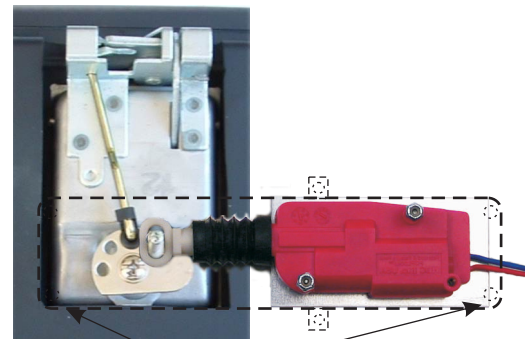


**RA-J1C2**  
 Red Actuator  
 Standard Nose Piece  
 J236, Rod, and Linkpin  
 Clear Cover-Shown in Outline

**RADN-J1C2**  
 Red Actuator  
 D-Nose Piece  
 J236, Rod, and Linkpin  
 Clear Cover-Shown in Outline



**Locked**

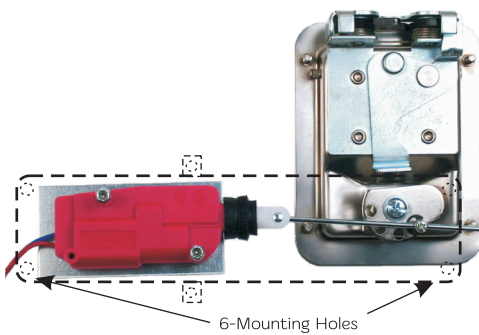


**Unlocked**



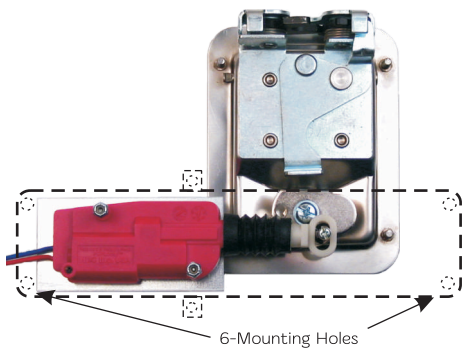


Power lock shown with Paddle Latch and HDC's Red Act actuator. This actuator utilizes a patented detent feature. Notching of clear cover may be required for some locking orientations. holding the lock orientation while the vehicle is in motion.



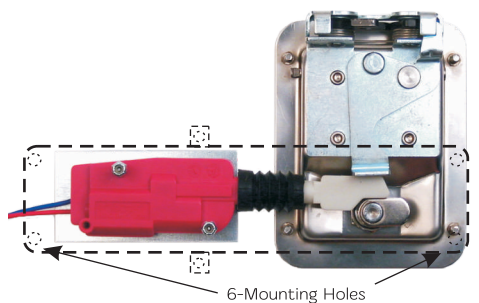
RA-J2B1  
Red Actuator  
Standard Nosepiece  
J236, Rod, and  
Rod Connector

RA-J1C2  
Red Actuator  
Standard Nosepiece  
J236, Rod, and Link-pin  
Clear Cover-Shown in Outline



RA-J1C2  
Red Actuator  
Standard Nosepiece  
J236, Rod, and Link-pin  
Clear Cover-Shown in Outline

RADN-J1C2  
Red Actuator  
D-Nose Piece  
J236, Rod, and Linkpin  
Clear Cover-Shown in Outline



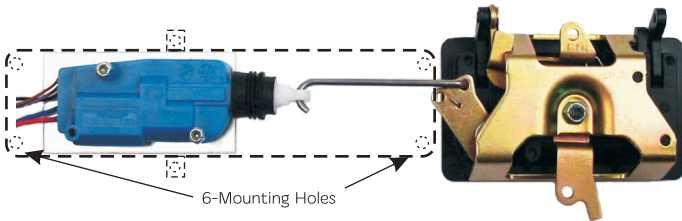
RANP-B1  
Red Actuator  
NP Nosepiece  
Adhesive Mount Base

RANP-C2  
Red Actuator  
NP Nosepiece  
Clear Cover-Shown in Outline



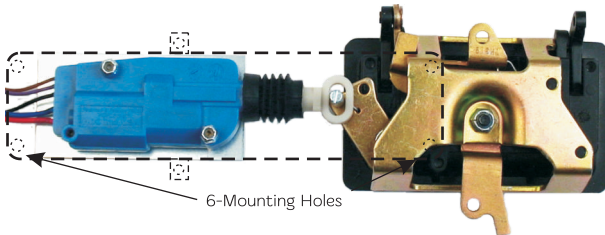


Power lock shown with an Entry Door Paddle latch and HDC's Blue Act actuator. Switched five wire enables key activations. Notching of clear cover may be required for some locking orientations.



**B5-B1C2**  
 Blue Actuator  
 Standard Nosepiece  
 Adhesive Mount Base  
 Clear Cover  
 (Shown In Outline)

**B5-B2C2**  
 Blue Actuator  
 Standard Nosepiece  
 Non-Adhesive Mount Base  
 Clear Cover  
 (Shown In Outline)

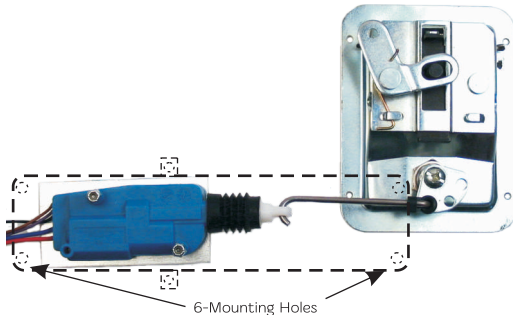


**B5DN-LP2C2**  
 Blue Actuator  
 D-Nosepiece  
 Long Linkpin / Locking Nut  
 Clear Cover  
 (Shown In Outline)

**B5DN-LP2B1**  
 Blue Actuator  
 D-Nosepiece  
 Long Linkpin / Locking Nut  
 Adhesive Mount Base

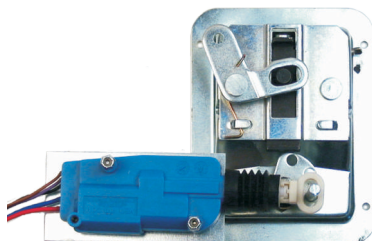


Power lock shown with Entry Door Paddle Latch and HDC's Blue Act actuator. Switched five wire enables key activations. Notching of clear cover may be required for some locking orientations.



**B5-J2C2**  
 Blue Actuator  
 Standard Nosepiece  
 J236, Cam, Rod,  
 Rod Connector  
 Clear Cover  
 (Outline Form)

**B5-J2B1**  
 Blue Actuator  
 Standard Nosepiece  
 J236, Cam, Rod,  
 Rod Connector  
 Adhesive Mount Base



**B5DN-LP1B1**  
 Blue Actuator  
 D-Nosepiece  
 Standard Linkpin  
 Long Rod  
 Adhesive Mount Base

**B5DN**  
 Blue Actuator  
 D-Nosepiece



# TECHNICAL SPECIFICATION HDC ACTUATORS

**NOMINAL VOLTAGE, 12 volt current  
with blocked rotor, 3 Amp.**

**1) OPERATIONAL FORCE**

VOLTAGE	TEMPERATURE	FORCE
13V+	20 DEGREES CELCIUS	30 N
13V+	70 DEGREES CELCIUS	25 N
13V+	25 DEGREES CELCIUS	30 N

Tolerance for test result: -10%, +30%

**2) OPERATIONAL TEST**

1 CYCLE = 1 OPENING AND ONE CLOSING MOVEMENT  
TEST = 180,000 CYCLES  
LOAD = 20N

TEST CYCLE: POWER ON 0.5 SECONDS, POWER OFF 15.0 SECONDS.

MOTOR TO BE COOLED BY FAN AT 50 DEGREES CELCIUS.

**3) TEMPERATURE AND MOISTURE TEST.**

1 CYCLE=6 HOURS AT 80 DEGREES CELCIUS, DRY HEAT.  
6 HOURS AT 50 DEGREES CELCIUS, 98% HUMIDITY.  
6 HOURS AT -25 DEGREES CELCIUS.

TRANSFER BETWEEN TEMPERATURES WITHIN THREE MINUTES. REPEAT FOR 10 CYCLES (TOTAL 180 HOURS).

AT THE END OF THE TEST THERE SHOULD BE NO DEFORMATION OF PARTS OR BREAKAGE.

THE ACTUATOR SHOULD FUNCTION AS STANDARD.

**4) SALT SPRAY TEST.**

PLACE DEVICE IN SALT CHAMBER FOR 96 HOURS.  
DEVICE SHOULD THEN FUNCTION AS STANDARD.

**5) PROTECTION AGAINST EXCESSIVE VOLTAGES.**

THE ACTUATOR MUST WITHSTAND A SPIKE INPUT 24 VOLTS.

**6) RADIO INTERFERENCE**

THE ACTUATOR MUST NOT AFFECT RADIO RECEPTION OR RADIO TELEPHONE TRANSMISSION. THE REQUIREMENTS ARE PRINTED IN GENERAL MOTORS QT12537 DOCUMENT.

**7) ELECTRICAL INSULATION**

THERE SHOULD BE AN INSULATION RESISTANCE HIGHER THAN 10M WITH APPLIED VOLTAGE OF 500V cc BETWEEN ONE TERMINAL AND MASS.

**8) IMPERMEABILITY TO WATER**

THE ACTUATOR MUST BE WATERTIGHT TO THE REQUIREMENTS OF D.I.N. 40 050. THE TEST SHOULD BE CARRIED OUT WITH THE ACTUATOR IN ITS FITTED POSITION.

**9) CABLE SECURITY**

ALL FITTED CABLES SHOULD NOT PULL OUT UNDER A LOAD OF 50N.

**10) VIBRATION TEST**

5-60Hz FOR TWO HOURS AT 23 DEGREES CELSIUS  
AMPLITUDE 0.5MM  
CYCLE TIME ONE MINUTE  
VIBRATION DIRECTION VERTICAL TO MOUNTING

**11) CASING MATERIAL CHEMICAL RESISTANCE**

THE TESTS TO BE MADE TO THE MAIN OUTER CASING OF THE ACTUATOR BY THE 'SPOT' METHOD. THE MATERIAL SHALL SHOW NO SIGNS OF DETERIORATION TO:  
PETROLEUM  
GREASE  
HYDRAULIC FLUID

